DRILL TEMPLATE WITH INTEGRAL VACUUM ATTACH

ABSTRACT OF THE DISCLOSURE

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A drill template includes a vacuum housing with a skirt having a CAD-formed contact surface formed to an exact fit with a mold line surface of a structure. The drill template includes at least one drill guide bushing extending through the vacuum housing from a top surface to an interior surface of the vacuum housing; a vacuum port integral to the vacuum housing; and at least one index hole for positioning and aligning the vacuum housing on the structure. Index holes extend from the top surface through to the CAD-formed contact surface of the vacuum housing. A CAD-formed edge of part locator is formed according to a CAD solid model of the aircraft fuselage and fits to a precise location of the structure for precisely positioning the template on the structure. A vacuum port provides vacuum to the interior of the vacuum housing for removing drilling debris and dust.